

Exelon Generation Company, LLC  
Braidwood Station  
35100 South Rt 53, Suite 84  
Braceville, IL 60407-9619  
Tel. 815-417-2000

www.exeloncorp.com

November 12, 2004  
BW040101

United States Nuclear Regulatory Commission  
ATTN: Document Control Clerk  
Washington, D. C. 20555-001

Braidwood Station, Units 1 and 2  
Facility Operating License Nos. NPF-72 and NPF-77  
NRC Docket Nos. STN 50-456 and STN 50-457


Subject: Amended 90-Day Post Outage ISI Summary Reports

- Reference: (1) Letter from M. J. Pacilio (Exelon Generation Company, LLC) to the U. S. NRC, "Braidwood Station, Unit 1 Inservice Inspection Summary Report," dated July 31, 2003
- (2) Letter from T. P. Joyce (Exelon Generation Company, LLC) to the U. S. NRC, "Braidwood Station, Unit 2 Inservice Inspection Summary Report," dated February 12, 2004

In July 2003 and February 2004, Exelon Generation Company, LLC (EGC) submitted, with the reference letters, the 90-Day Post Outage Inservice Inspection (ISI) Summary Reports associated with the Spring 2003 refueling outage for Braidwood Station, Unit 1 (A1R10) and Braidwood Station, Unit 2 Fall 2003 refueling outage (A2R10) respectively. The documentation for four replacement activities was not completed and not submitted in these previous reports. The documentation for these activities is enclosed. Additionally, Section 6.0 for each Summary Report, which tabulates the documentation, has been amended.

Should you have any questions concerning this letter, please contact Mr. Dale Ambler, Regulatory Assurance Manager, at (815) 417-2800.

Respectfully,

  
T. P. Joyce  
Site Vice President  
Braidwood Station

cc: Regional Administrator - NRC Region III  
NRC Senior Resident Inspector - Braidwood Station (w/o enclosure)  
Illinois Emergency Management Agency - Division of Nuclear Safety

A047

**UNIT 1**  
**Amended Section 6.0**  
**Braidwood Station, Unit 1 A1R10 Replacement Activities**

The following Braidwood Station, Unit 1 Owners Report of Repair or Replacement, Form NIS-2, has been prepared by the ISI Program Owner and certified by the Authorized Nuclear Inservice Inspector (ANII):

**SUMMARY OF NIS-2 FORM**

| <b>Work Order Number</b> | <b>ASME Code Class</b> | <b>System</b>                    | <b>Description</b>                                                   |
|--------------------------|------------------------|----------------------------------|----------------------------------------------------------------------|
| 00459713-01              | 2                      | Chemical and Volume Control (CV) | Replace existing relief valve (1CV8117) with a tested spare assembly |

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

1. Owner : Exelon Generation Co., LLC  
Address: 300 Exelon Way, Kennett Square, PA 19348

Date 7/27/04  
Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 1  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00459713-01  
Repair Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Code Symbol Stamp: None  
Authorization No.: None  
Expiration Date: None

4. Identification of System: Chemical and Volume Control and Boron Regeneration (Class 2 System)

- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Winter 1972 Addenda, No Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No Addenda  
(c) Section XI code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component           | Name of Manufacturer      | Manufacturer Serial No.      | National Board No. | Other Identification       | Year Built   | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------------|---------------------------|------------------------------|--------------------|----------------------------|--------------|------------------------------------|-------------------------------|
| 2" X 3" Safety Relief Valve | Anderson Greenwood Crosby | Serial Number N56903-00-0008 | Not Applicable     | 1CV8117                    | Not Recorded | Replaced                           | Yes                           |
| 2" X 3" Safety Relief Valve | Anderson Greenwood Crosby | Serial Number N56903-00-0036 | Not Applicable     | Cat ID 27689-1 UTC 2670114 | 2003         | Replacement                        | Yes                           |

7. Description of Work: Removed existing valve to perform IST testing and reinstalled new tested spare valve.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒  
Other ☐ Pressure 2235 psig Test Temp. 559 °F

9. Remarks: VT-2 exam performed and accepted during Mode 3 walkdown on 4/30/2003. Applicable Manufacturer's Data Reports were attached at the time of final review and are maintained on file. Issue Report 239701 was initiated to document this Form NIS-2 was not submitted in A1R10 ISI Summary Report as required by IWA-6000.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 8/8, 2004  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of IL and employed by HSTBC of CT have inspected the components described in this Owner's Report during the period 4-12-04 to 8-9-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions IL # 1095  
National Board, State, Province, and Endorsements

Date 8-9, 2004

**UNIT 2**  
**Amended Section 6.0**  
**Braidwood Station, Unit 2 A2R10 Replacement Activities**

The following Braidwood Station, Unit 2 Owners Reports of Repair or Replacement, Forms NIS-2, have been prepared by the ISI Program Owner and certified by the Authorized Nuclear Inservice Inspector (ANII):

**SUMMARY OF NIS-2 FORM**

| <b>Work Order Number</b> | <b>ASME Code Class</b> | <b>System</b>                    | <b>Description</b>                                                                                      |
|--------------------------|------------------------|----------------------------------|---------------------------------------------------------------------------------------------------------|
| 00633658-01              | 2                      | Auxiliary Feedwater (AF)         | Replace existing hinge pin bushings and hex nuts on check valve 2AF014D                                 |
| 99273255-01              | 2                      | Chemical and Volume Control (CV) | Reinstall body-to-bonnet seal weld removed to gain access to valve internals for inspection of 2CV8368A |
| 99229198-01              | 1                      | Reactor Coolant                  | Replace 2RC01BC steam generator manway bolts to standardize bolt head with remaining bolting (no flaw)  |

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
As Required by the Provisions of the ASME Code Section XI

1. Owner : Exelon Generation Co., LLC  
Address: 300 Exelon Way, Kennett Square, PA 19348

Date 10/25/04  
Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 2  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #00633658-01  
Repair Organization P.O., Job No., etc

3. Work Performed By: Braidwood Station Mechanical Maintenance  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Code Symbol Stamp: None  
Authorization No.: None  
Expiration Date: None

4. Identification of System: Auxiliary Feed Water (AF) (Class 2 System)

5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Winter 1975 Addenda, No Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No Addenda  
(c) Section XI code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component                                                  | Name of Manufacturer                                | Manufacturer Serial No.                     | National Board No. | Other Identification                       | Year Built     | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|--------------------------------------------------------------------|-----------------------------------------------------|---------------------------------------------|--------------------|--------------------------------------------|----------------|------------------------------------|-------------------------------|
| Hinge Pin Bushings and Hex nut for Anderson, Greenwood Check Valve | Anderson, Greenwood & Co.                           | Valve Serial Number A1362                   | Not Applicable     | 2AF014D                                    | Not Applicable | Replaced                           | Yes (Valve)                   |
| Hinge Pin Bushings for Check Valve                                 | Anderson, Greenwood & Co./Anderson Greenwood Crosby | Heat 849847 Code A601 and S/N 97915-35-0014 | Not Applicable     | Cat ID 20850-1 UTC 2049161 and 2668706     | 1993 and 2002  | Replacement                        | No                            |
| Slotted Hex Nut (3/8"-16)                                          | Anderson, Greenwood & Co./Energy Steel & Supply Co. | Trace B213 and Heat 78961                   | Not Applicable     | Cat ID 21097-1 UTC 2054496 and UTC 2066449 | 1997 and 2000  | Replacement                        | No                            |

7. Description of Work: Replaced existing hinge pin bushings and hex nuts during valve maintenance.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒  
Other ☐ Pressure 1000 psig Test Temp. 80 °F

9. Remarks: VT-2 exam performed and accepted on 11/18/2003. Applicable Manufacturer's Data Reports were attached at the time of final review and are maintained on file. Issue Report 239701 was initiated to document this Form NIS-2 was not submitted in A2R10 ISI Summary Report as required by IWA-6000.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator Date 10/25, 2004  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of IL and employed by ASB of CA have inspected the components described in this Owner's Report during the period 10-5-03 to 10-26-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

[Signature]  
Inspector's Signature

Commissions IL 1095  
National Board, State, Province, and Endorsements

Date 10-26, 2004

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**

1. Owner : Exelon Generation Co., LLC  
Address: 300 Exelon Way, Kennett Square, PA 19348

Date 7/27/04  
Sheet 1 of 1

2. Plant Name: Braidwood Station Unit 2  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Work Order #99273255-01  
Repair Organization P.O., Job No., etc

3. Work Performed By: G. N. Venture  
Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407

Code Symbol Stamp: None  
Authorization No.: None  
Expiration Date: None

4. Identification of System: Chemical and Volume Control and Boron Regeneration (Class 2 System)

- 5 (a) Applicable Construction Code: ASME Section III 1974 Edition, Winter 1975 Addenda, No Code Case  
(b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No Addenda  
(c) Section XI code Cases used: None

6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component                                                               | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification         | Year Built     | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|---------------------------------------------------------------------------------|----------------------|-------------------------|--------------------|------------------------------|----------------|------------------------------------|-------------------------------|
| Welding Electrode (E316/316L) for seal welding body-to-bonnet on valve 2CV8368A | Arcos Ind. LLC       | Lot 2M4C-4A             | Not Applicable     | Cat ID 8502-2<br>UTC 2669342 | Not Applicable | Replacement                        | No                            |

7. Description of Work: Removed and reinstalled body-to-bonnet seal weld to gain access to valve internals in order to perform inspection for valve 2CV8368A.

8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☒  
Other ☐ Pressure 2242 psig Test Temp. 558 °F

9. Remarks: VT-2 exam performed and accepted during Mode 3 walkdown on 11/18/2003. Applicable Manufacturer's Data Reports were attached at the time of final review and are maintained on file. Issue Report 239701 was initiated to document this Form NIS-2 was not submitted in A2R10 ISI Summary Report as required by IWA-6000.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI. Type Code Symbol Stamp: Not Applicable Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casuy ISI Coordinator Date 8/8, 2004  
Owner or Owner's Designee, Title

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of IL, and employed by HSPCT of CT have inspected the components described in this Owner's Report during the period 11-13-03 to 8-9-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

J. [Signature]  
Inspector's Signature

Commissions IL-1085  
National Board, State, Province, and Endorsements

Date 8-9, 2004

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**  
**(Sheet 1 of 2)**

1. Owner : Exelon Generation Co., LLC Date 4/09/04  
 Address: 300 Exelon Way, Kennett Square, PA 19348
2. Plant Name: Braidwood Station Unit 2 Work Order #99229198-01  
 Address: 35100 S. Rte. 53, Suite 84, Braceville, IL 60407 Repair Organization P.O., Job No., etc
3. Work Performed By: Westinghouse Type Code Symbol Stamp: None  
 Address: Waltz Mill Facility, Madison PA, 15663 Authorization No.: None  
 Expiration Date: None
4. Identification of System: Reactor Coolant (RC) Class 1 System
- 5 (a) Applicable Construction Code: ASME Section III 1971 Edition, Summer 1972 Addenda, No Code Case  
 (b) Applicable Edition of Section XI Utilized for Repairs or Replacements: 1989 Edition with No Addenda  
 (c) Section XI code Cases used: None
6. Identification of Components Repaired or Replaced and Replacement Components:

| Name of Component                             | Name of Manufacturer | Manufacturer Serial No. | National Board No. | Other Identification                | Year Built | Repaired, Replaced, or Replacement | ASME Code Stamped (Yes or No) |
|-----------------------------------------------|----------------------|-------------------------|--------------------|-------------------------------------|------------|------------------------------------|-------------------------------|
| 2C Steam Generator Primary Manway Flange Bolt | Westinghouse         | MA-48275-M014           | Not Applicable     | 2RC01BC Hot Leg, Bolt Location #9   | Unknown    | Replaced                           | No                            |
| 2C Steam Generator Primary Manway Flange Bolt | Westinghouse         | MA-48275-M-003          | Not Applicable     | UTC 2036659                         | 1992       | Replacement                        | No                            |
| 2C Steam Generator Primary Manway Flange Bolt | Westinghouse         | MA-40253-D013           | Not Applicable     | 2RC01BC Cold Leg, Bolt Location #12 | Unknown    | Replaced                           | No                            |
| 2C Steam Generator Primary Manway Flange Bolt | Westinghouse         | MA-48275-M-024          | Not Applicable     | UTC 2070813                         | 1992       | Replacement                        | No                            |

7. Description of Work: Replaced two steam generator manway bolts to standardize bolt head with remaining bolting (no flaw). No VT-2 required, manways were examined during Mode 3 walkdown, no leakage observed.
8. Tests Conducted: Hydrostatic ☐ Pneumatic ☐ Nominal Operating Pressure ☐  
 Other ☐ Pressure \_\_\_\_\_ psig Test Temp. \_\_\_\_\_ °F

**FORM NIS-2 OWNER'S REPORT FOR REPAIRS OR REPLACEMENTS**  
**As Required by the Provisions of the ASME Code Section XI**  
**Sheet 2 of 2**

9. Remarks: Applicable Manufacturer's Data Reports Attached at the time of final review and are maintained on file.

**CERTIFICATE OF COMPLIANCE**

We certify that the statements made in the report are correct and this replacement conforms to the rules of the ASME Code, Section XI.

Type Code Symbol Stamp: Not Applicable

Certificate of Authorization No.: Not Applicable

Signed Brendan J. Casey ISI Coordinator  
Owner or Owner's Designee, Title

Date 4/9, 2004

**CERTIFICATE OF INSERVICE INSPECTION**

I, the undersigned, holding a valid commission issued by the National Board of Boiler and Pressure Vessel Inspectors and the State of Province of ILLINOIS and employed by HSBCT of CT have inspected the components described in this Owner's Report during the period 10-27-03 to 4-9-04, and state that to the best of my knowledge and belief, the Owner has performed examinations and taken corrective measures described in this Owner's Report in accordance with the requirements of the ASME Code, Section XI.

By signing this certificate neither the Inspector nor his employer makes any warranty, expressed or implied, concerning the examinations and corrective measures described in this Owner's Report. Furthermore, neither the Inspector nor his employer shall be liable in any manner for any personal injury or property damage or a loss of any kind arising from or connected with this inspection.

L. H. H. H.  
Inspector's Signature

Commissions IL-1085  
National Board, State, Province, and  
Endorsements

Date 4-9, 2004